

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 20045. Lease Serial No.
Jicarilla Contract #460a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion: ☐ New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____6. If Indian, Allottee or Tribe Name
Jicarilla Apache Tribe7. Unit or CA Agreement Name and No.
22861

2. Name of Operator

8. Lease Name and Well No.

Mallon Oil Co., an indirect wholly-owned subsidiary of Black Hills E & P

Jicarilla 460-15 No. 4

3. Address

3a. Phone No. (include area code)

50 Indiana Street, Suite 400 Golden, CO 80401

720-210-1308

9. API Well No.

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

30-039-25904

At surface 180' FSL & 330' FEL (SESE) Unit P

10. Field and Pool, or Exploratory
Cabresto Canyon; Tertiary

At top prod. interval reported below 180' FSL & 330' FEL (SESE) Unit P

11. Sec., T., R., M., on Block and Survey
or Area Sec. 15, T30N-R03W

At total depth 180' FSL & 330' FEL (SESE) Unit P

12. County or Parish
Rio Arriba13. State
NM

4. Date Spudded

7/21/98

15. Date T.D. Reached

7/28/98

16. Date Completed

☐ D & A☒ Ready to Prod.

8/15/02

17. Elevations (DF, RKB, RT, GL)*

7183' GL, 7196' KB

8. Total Depth: MD

TVD 3900'

19. Plug Back T.D.: MD

TVD 3828'

20. Depth Bridge Plug Set: MD

TVD

1. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit report)Directional Survey? ☒ No ☐ Yes (Submit copy)

2. IND, SGDR

3. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	25	0	550'		100 sxs		surface:	
						& Class H		circ 35 sx	
								to surface	
7 7/8"	5 1/2"	15.5	0	3882'		185 sxs		surface:	
								circ 10 sx	
								to surface	

4. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8	3621' KB	3610' KB						

5. Producing Intervals

26. Perforation Record

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
San Jose	1128'	1231'	1128-1133, 1163-1173, 1224-1231	4 jspf	88	

7. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
128"-1231"	Cement Squeeze: pump 150 sks class H cmt at 15.8 ppg w/0.4% halad344, 2% CaCL2 1.15 cuft/sk yield 3.0-2.0 bbl/min at max pressure 1400 psi.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
5/3/03			<input type="checkbox"/>						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>					Producing	

2a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg. Press. Flwg. SI	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

See instructions and spaces for additional data on next page)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

29. Disposition of Gas (Sold used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				San Jose	~surface
				Nacimiento	1932'
				Ojo Alamo	3124'
				Kirtland	3360'
				Fruitland	3560'
				Pictured Cliffs	3612'
				Lewis	3710'

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- 1 Electrical/Mechanical Logs (1 full set req'd.) 2 Geologic Report 3 DST Report 4 Directional Survey
 5 Sundry Notice for plugging and cement verification 6 Core Analysis 7 Other: _____

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Allison Newcomb

Title Engineering Technician

Signature

Allison Newcomb

Date 4/15/2004

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false fictitious or fraudulent statements or representations as to any matter within its jurisdiction.